ABSTRACT OF THE DISCLOSURE

A method for calculating a local mean number of tasks for each processing element (PE_r) in a parallel processing system, wherein each processing element (PE_r) has a local number of tasks associated therewith and wherein r represents the number for a selected processing element, the method comprising assigning a value (E_r) to the each processing element (PE_r), summing a total number of tasks present on the parallel processing system and the value (E_r) for the each processing element (PE_r), dividing the sum of the total number of tasks present on the parallel processing system and the value (E_r) for the each processing element (PE_r) by a total number of processing elements in the parallel processing system and truncating a fractional portion of the divided sum for the each processing element.